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APPLICATION NO.	FIL	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,405	07/03/2003		Hiroshi Watanabe	016907-1569	3582
22428	7590	05/18/2005		EXAMINER	
FOLEY AN	D LARD	NER	NOLAN JR, CHARLES H		
SUITE 500 3000 K STRE	EET NW		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20007				2854	

DATE MAILED: 05/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Astion Comme	10/612,405	WATANABE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Charles H. Nolan, Jr.	2854				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 03 M	arch 2005 and 20 April 2005.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowan	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-31 is/are pending in the application. 4a) Of the above claim(s) 25-31 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on <u>03 July 2003</u> is/are: a)☒ Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11)☐ The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to b drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/3/03; 1/13/04; 4/20/05	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	(PTO-413) ite atent Application (PTO-152)				
S Patent and Trademark Office	· · · · · · · · · · · · · · · · · · ·					

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Claims 1-24 in the reply filed on 3-3-05 is acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1,4,7,10-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Lancaster et al. (5,760,644).

With respect to Claims 1,4, Lancaster teaches the first functional block (power supply), the second functional block (memory which stores information) in column 2, lines 25-28, , the signal line in column 2, lines 20-25 and the front page diagram and the semiconductor time switch in the Abstract and figures 2-5. With respect to Claim 7, Lancaster teaches the first input/output terminal 302 and the third functional block (-7 volts) connected to another terminal 301 of the semiconductor time switch 31' in figure 3. With respect to Claim 10, Lancaster teaches the source region (left side 50), the drain region (right side 50) formed apart from each other, the gate electrode 40 insulatively formed in a channel between the source and drain region in figure 3 and the source 302 and the drain 303 being used as two connection terminals to connect first and second functional blocks in figure 3. With respect to Claim 11, Lancaster teaches the non-

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conductive channel over time in figure 2 and the supply of charge to the gate electrode in advance in figure 3 and column 2, lines 30-37. With respect to Claim 12, Lancaster teaches the NPN junction in figure 3. With respect to Claim 13, Lancaster teaches the charges on the gate electrode 40 leak through an insulating member (dielectric) in column 2, lines 30-32.

Allowable Subject Matter

- 4. Claims 2-3,5-6,8-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 14-24 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter: The Examiner reserves comment until the entire application is in condition for allowance.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles H. Nolan, Jr. whose telephone number is 571-272-2171. The examiner can normally be reached on Monday through Thursday 8:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on 571-272-2168. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charles H Nolan, Jr

Primary Examiner Art Unit 2854

CHN